

AG-312: FIELDWORK III

(02 Credit hrs)

Prerequisite: AG-110

Learning Outcomes

This course is designed to

- physically observe the various types stratigraphic units, groups,
- igneous metamorphic textures and complexes, deformational fabric and structures in the field.

Course Contents

Guided geological excursion of 10-14days duration preceded by lectures on advanced techniques and methods of field geology necessary for detailed geological maps and interpretation.

Geological excursion will be comprised of the following:

4 to 5 days mapping camps to prepare a geological map of a sedimentary area.

4 to 5 days mapping camp to prepare a geological map of igneous/ metamorphic area.

Visiting dam sites, well sites, mines and quarries and acquiring data regarding bore-hole logging, pits, tunnels and different kinds of drilling etc. Every student will maintain a field notebook. This notebook will be presented at the time of viva voce examination, which should be properly signed by the concerned teacher/s in the field. At the end of this field program, every student will study thin sections for micropaleontological and petrological purposes.

Field report will be the conclusion of extensive field data as well as through lab work and pervasive literature survey.

TEACHING – LEARNING STRATEGIES

- Lecture based examination
- Presentation/seminars
- Class discussion
- Quizzes

ASSIGNMENTS – TYPE AND NUMBER WITH CALENDAR

It is continuous assessment. The weightage of Assignments will be 25% before and after midterm assessment. It includes:

- classroom participation,
- attendance, assignments and presentation,
- homework
- attitude and behavior,
- hands-on-activities,
- short tests, quizzes etc.

ASSESSMENT AND EXAMINATIONS

Sr. No.	Elements	Weightage	Details
1.	Test/Quiz	35%	It takes place after the completion of Fieldwork.
2.	Field Report	25%	It will be submitted after one week of completion of fieldwork.
3.	Viva Voice	40%	It takes place at the end of the semester.

Books Recommended

1. Elements of field geology by Himus, G.W., Sweeting, G.S., Latest Ed., University Tutorial Press Ltd.
2. Field Geology by Lahee, F.H., 1961, McGraw Hill.
3. Geology and the field by Compton, R.R., 1985, John Wiley & Sons.